NOVEMBER/DECEMBER 2023

CMB52 — AGRICULTURAL AND ENVIRONMENTAL MICROBIOLOGY

Time: Three hours

Maximum: 75 marks

LIBRARY ECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

- 1. What are Pore Spaces?
- 2. Define Bulk density.
- 3. What is Mineralization?
- 4. Define Humous.
- 5. Define Pathogen.
- 6. What is Phyllosphere?
- 7. Define Nosocominal Infections.
- 8. What are Aeroallergens?
- 9. Define Periphyton.
- 10. Expand BOD.

SECTION B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions.

11. (a) Describe the various kinds of Microbes found in Soil.

Or

- (b) Give an account of the Different Types of Soil.
- 12. (a) Writes notes on Phosphorous Cycle.

Or

- (b) Explain briefly about Bacterial Insecticides.
- 13. (a) Explain the Mutualism with an example.

Or

- (b) Describe the Symptoms, Epedimiology and Control of Bacterial Leaf Blight of Rice.
- 14. (a) Define Aeromicrobiology. Add a note on various sources of Air borne organisms.

Or

- (b) What is Air Sanitation? Give Concise note on Physical techniques of Air Sanitation.
- 15. (a) Comment on Pond Ecosystem.

Or

(b) Explain the Process of Activated Sludge System.

Answer any THREE questions.

Discuss the Chemical Properties of Soil.

- 17. Give elaborate account on Nitrogen Cycle.
- 18. Give an account of Symptoms, Causal organisms.

 Disease cycle and control measures of Wilt disease of Cotton.
- 19. Discuss in detail about the different Air sampling devices.
- 20. Define Potable Water. Explain the most probable number technique.

LIBRARY